

## MEDICAL UNIVERSITY - PLEVEN FACULTY OF MEDICINE

**Department of pediatrics** 

**Lecture № 2** 

### PHYSICAL EXAMINATION

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# PHYSICAL EXAMINATION INTRODUCTION

- There is a lack of cooperation in children 1 to 4 year of age
- It is necessary to place the small children on a table or to sit on an examination couch
- The examiner should be with warm hands
- The light must be as bright as possible
- All cloths must be removed except shorts



- Examination should be completed quickly
- •There is a special order of the examination:

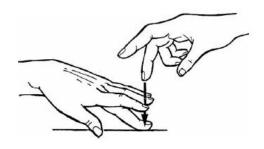
Painful procedures should be explained to the child before

Painful area should be examined last

Auscultation should be done before the child begins to cry

# PHYSICAL EXAMINATION METHODS

- Inspection
- Palpation
- Percussion
- Auscultation









# PHYSICAL EXAMINATION INSTRUMENTS

- Stethoscope small bell for infants, diaphragm for older children
- Tongue depressor
- Percussion hammer
- Flash-light
- Thermometer





## THE ORDER OF THE EXAMINATION GENERAL APPERANCE

Aim- to asses whether the child seems to be well or sick

#### **Health conditions:**

- Good (stable)
- Satisfactory
- Bad
- Life-threatening









#### **GENERAL APPERANCE**

## Criteria:

- 1. Temperature
- 2. Face
- 3. Consciousness
- 4. **Attitude** toward parents
- 5. **Position** in the bad (active or passive)
- 6. **Skin** color, rush, turgor, skin elasticity, fat tissue





- 7. **Head** size, shape, fontanels (anterior and posterior)
- 8. **Neck** thyroid gland, veins distention, torticolis
- 9. **Lymph nodes** size, location
- 10. **Muscle tone** firmness during passive range of motion

## THE ORDER OF THE EXAMINATION RESPIRATORY SYSTEM

#### Inspection

- Rate of breathing
- Cyanosis
- Chest retraction
- Nose discharge
- Voice
- Cough and sputum
- Chest shape, symmetry (Pigeon breast, excavated chest, Harrison's groove, Rachitic rosary)

#### **Palpation**

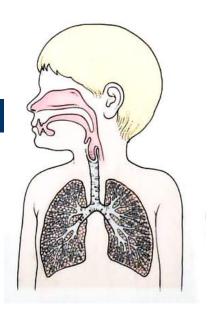
Tactil fremitus – vibratory sensations during crying (by palm and fingers)

#### **Percussion**

Resonance – normal, increased, decreased to dullness

#### **Auscultation**

- Breath sounds vesicular, bronchial (increased), decreased to absent
- Chest sounds fine crackles, roncki, wheezes, plural rub



### **CARDIO-VASCULAR SYSTEM**

- Inspection heart hump
- Palpation apex beat, trill, radial and femoral pulse
- Auscultation rhythm, heart sounds, murmurs
- Blood pressure



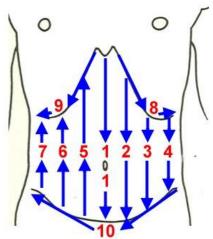




## **GASTROINTESTINAL SYSTEM**

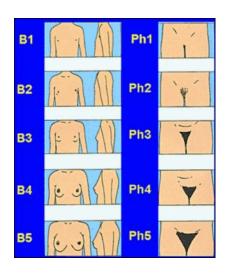
- Throat lips, bucal mucosa, teeth, tongue, gums, palate, tonsils, pharynx, odor (using tongue depressor)
- Abdomen flat or distended, pain, rigidity, peristaltic sounds 10-30 seconds (in a supine position with warm hands
- Liver size below the right costal margin, the edge (soft or sharp)
- Spleen



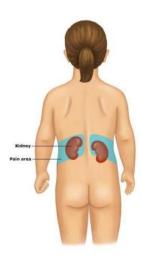


## **GENITOURINARY SYSTEM**

- Stage of pubertal development
- External genitalia labial folds, phimosis
- Succussio renalis
- Palpation of the kidneys for mass





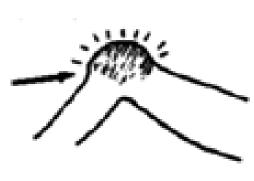


## **MUSCULOSKELITAL SYSTEM**

- Bones deformities
- Joints swelling, limitation of movement
- Muscles tone, atrophy, hypertrophy
- Movements





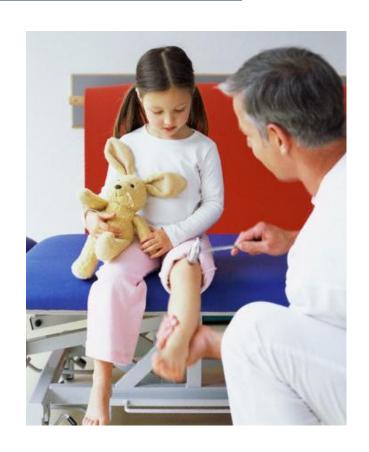






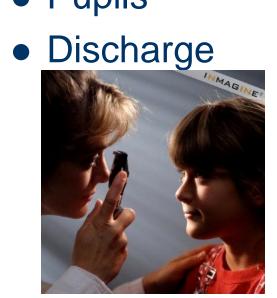
## **NEUROLOGICAL SYSTEM**

- Cranial nerves
- Reflexes
- Tremor, chorea, athetosis
- Sighs for meningitis
- Intracranial pressure
- Sensory
- IQ



## **EYES**

- Sclerae
- Pupils





## **EARS**

discharge

